

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	21	("1605316" "1776611" "1889866" "2206166" "2320107" "2745685" "3754609" "3933395" "3978933" "4205926" "4360320" "4592427" "4982801" "5015162" "6213229").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/05/16 12:52
S4	749	(tapered near3 thread\$4) and torque and (rod or shaft) and shoulder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/15 08:02
S8	134	(sucker rod) and torque and taper\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/15 08:47
S9	374	(sucker or drive) rod and (progress\$6 cavity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/15 09:39
S10	4875	(shaft or coupling) and torque and shoulder and rough\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/15 10:20
S12	70	(shaft or coupling) and torque and (shoulder with (rough or roughened or textured))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/15 10:37
S13	62	((sucker rod) or (drive rod string) or coupling) and torque and (shoulder with (rough or roughened or textured or grooved)) and friction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/15 10:52
S14	19	418/48.ccls. and ((sucker or drive) rod)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:51

## EAST Search History

S15	770	(tapered thread) and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:53
S16	436	(tapered thread) and torque and (drive or power)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:53
S17	349	(tapered thread) and torque and (rod or shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:55
S18	3	(tapered thread) and torque and (shoulder with (rough or roughened or textured))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:56
S19	70	(shaft or coupling) and torque and (shoulder with (rough or roughened or textured))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:58
S20	311	((sucker rod) or (drive rod) or coupling or connector) and ((rough or roughened or textured) with shoulder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 08:59
S21	116	(tapered thread) and ((internal or secondary) (stop or shoulder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:32
S22	24	(sucker rod) and (ft-lb or ftlb or (ft lb))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 16:56

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S23	0	(sucker rod) and (ft-lbf or ftlb or (ft lbf))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:33
S24	6	(sucker rod) and (in-lb or inlb or (in lb))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 16:56
S25	24	(sucker rod) and (foot-pound or footpound or (foot pound))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:36
S26	13	(sucker rod) and (inch-pound or inchpound or (inch pound))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:35
S27	76	(sucker rod) and (N-m or Nm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:35
S28	0	(sucker rod) and (Newton-meter or Newtonmeter or (Newton meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:38
S29	19	(tapered thread) and (increase with torque with (rating or limit or capacity or tolerance))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 09:40
S40	8	white-jack.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 12:53

## EAST Search History

S41	7	vogt-greg\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 12:58
S42	0	"DELAWARE CAPITAL FORMATION-INC.".as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 13:00
S43	1146	"DELAWARE CAPITAL FORMATION".as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 13:05
S44	0	"DELAWARE CAPITAL FORMATION".as. and "4592427".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/16 13:05
S45	60	pin and box and shoulder and (roughened or knurled) and friction and ("403"/\$.ccls. or "418"/\$.ccls. or "464"/\$.ccls. or "175"/\$.ccls. or "411"/\$.ccls. or "166"/\$.ccls. or "285"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:23
S46	59	pin and box and torque and (roughened or knurled) and friction and ("403"/\$.ccls. or "418"/\$.ccls. or "464"/\$.ccls. or "175"/\$.ccls. or "411"/\$.ccls. or "166"/\$.ccls. or "285"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:23
S47	292	(tapered thread) and (shaft or rod) and ("166"/\$.ccls. or "285"/\$.ccls. or "403"/\$.ccls. or "464"/\$.ccls. or "418"/\$.ccls. or "411"/\$.ccls. or "175"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:28
S48	568	(tapered thread) and (coupling or connector) and ("166"/\$.ccls. or "285"/\$.ccls. or "403"/\$.ccls. or "464"/\$.ccls. or "418"/\$.ccls. or "411"/\$.ccls. or "175"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:28

## EAST Search History

S49	473	("166"/\$.ccls. or "285"/\$.ccls. or "403"/\$.ccls. or "464"/\$.ccls. or "418"/\$.ccls. or "411"/\$.ccls. or "175"/\$.ccls.) and (ft-lb or ftlb or (ft lb))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:32
S50	144	("166"/\$.ccls. or "285"/\$.ccls. or "403"/\$.ccls. or "464"/\$.ccls. or "418"/\$.ccls. or "411"/\$.ccls. or "175"/\$.ccls.) and (in-lb or inlb or (in lb))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:31
S51	9	("166"/\$.ccls. or "285"/\$.ccls. or "403"/\$.ccls. or "464"/\$.ccls. or "418"/\$.ccls. or "411"/\$.ccls. or "175"/\$.ccls.) and (ft-lbf or ftlbf or (ft lbf))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/05/21 08:32